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### 1 [The measured performance of personal computer operating systems](#)

J. Bradley Chen, Yasuhiro Endo, Kee Chan, David Mazières, Antonio Dias, Margo Seltzer, Michael D. Smith

 February 1996 **ACM Transactions on Computer Systems (TOCS)**, Volume 14 Issue 1

 Full text available: [pdf\(2.38 MB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

This article presents a comparative study of the performance of three operating systems that run on the personal computer architecture derived from the IBM-PC. The operating systems, Windows for Workgroups, Windows NT, and NetBSD (a freely available variant of the UNIX operating system), cover a broad range of system functionality and user requirements, from a single-address-space model to full protection with preemptive multitasking. Our measurements are enabled by hardware counters in Intel ...

**Keywords:** Microsoft Windows, operating systems performance measurement, operating systems structure, personal computers

### 2 [Dynamic translation: The Transmeta Code Morphing™ Software: using speculation, recovery, and adaptive retranslation to address real-life challenges](#)

James C. Dehnert, Brian K. Grant, John P. Banning, Richard Johnson, Thomas Kistler, Alexander Klaiber, Jim Mattson

 March 2003 **Proceedings of the international symposium on Code generation and optimization: feedback-directed and runtime optimization**

 Full text available: [pdf\(988.25 KB\)](#)

 Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

[Publisher Site](#)

Transmeta's Crusoe microprocessor is a full, system-level implementation of the x86 architecture, comprising a native VLIW microprocessor with a software layer, the **Code Morphing Software (CMS)**, that combines an interpreter, dynamic binary translator, optimizer, and runtime system. In its general structure, CMS resembles other binary translation systems described in the literature, but it is unique in several respects. The wide range of PC workloads that CMS must handle gracefully in real ...

**Keywords:** binary translation, dynamic optimization, dynamic translation, emulation, self-modifying code, speculation

### 3 [More Letters](#)

 January 2000 **Linux Journal**

 Full text available: [html\(21.08 KB\)](#)

 Additional Information: [full citation](#), [index terms](#)

4 Designing and implementing a cyberwar laboratory exercise for a computer security course

Paul J. Wagner, Jason M. Wudi

March 2004 **ACM SIGCSE Bulletin , Proceedings of the 35th SIGCSE technical symposium on Computer science education**, Volume 36 Issue 1

Full text available:  [pdf\(191.77 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The development of a cyberwar laboratory exercise for a computer security course raises many pedagogical and management issues relating to the structure of the laboratory, its network and the exercise itself. We have designed, implemented and given such an exercise, and faced many of these issues. Evaluation of this exercise leads to multiple insights about the proper goals, structure and implementation of such an exercise.

**Keywords:** cybersecurity, cyberwar, exercise, laboratory, security

5 It takes a village to build an image

R. Mark Koan, Kelly Caye, Steven K. Brawn

September 2003 **Proceedings of the 31st annual ACM SIGUCCS conference on User services**

Full text available:  [pdf\(228.71 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)



Managing operating systems and campus-supported software can be a daunting challenge. Many colleges and universities handle these challenges by using disk imaging software to create and deploy system images to some or all of their computers. ASU West has been building and deploying system images with Ghost for many years. Recently, however, we decided to re-evaluate our imaging processes and we found a number of ways to improve them. This presentation will share what we learned. It will discuss ...

**Keywords:** Symantec Ghost, ghost, ghosting, image deployment, imaging, software deployment, software management

6 Performance characterization of a Quad Pentium Pro SMP using OLTP workloads

Kimberly Keeton, David A. Patterson, Yong Qiang He, Roger C. Raphael, Walter E. Baker

April 1998 **ACM SIGARCH Computer Architecture News , Proceedings of the 25th annual international symposium on Computer architecture**, Volume 26 Issue 3

Full text available:  [pdf\(1.58 MB\)](#)  Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)  
[Publisher Site](#)

Commercial applications are an important, yet often overlooked, workload with significantly different characteristics from technical workloads. The potential impact of these differences is that computers optimized for technical workloads may not provide good performance for commercial applications, and these applications may not fully exploit advances in processor design. To evaluate these issues, we use hardware counters to measure architectural features of a four-processor Pentium Pro-based se ...

7 Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available:  [pdf\(4.21 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display

repeated occurrences of non-trivial commun ...

8 A study of initialization in Linux and OpenBSD

Catherine Dodge, Cynthia Irvine, Thuy Nguyen

April 2005 **ACM SIGOPS Operating Systems Review**, Volume 39 Issue 2

Full text available:  [pdf\(2.02 MB\)](#)


Additional Information: [full citation](#), [abstract](#), [references](#)

The code that initializes a system can be notoriously difficult to understand. In secure systems, initialization is critical for establishing a starting state that is secure. This paper explores two architectures used for bringing an operating system to its initial state, once the operating system gains control from the boot loader. Specifically, the ways in which the OpenBSD and Linux operating systems handle initialization are dissected.

9 Boot with GRUB

Wayne Marshall

May 2001 **Linux Journal**

Full text available:  [html\(29.20 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [index terms](#)

Run multiple OSES with free GRUB.

10 Bootling Linux from EPROM

Dave Bennett

January 1997 **Linux Journal**

Full text available:  [html\(8.38 KB\)](#)


Additional Information: [full citation](#), [abstract](#), [index terms](#)

A quick look at making Linux bootable from EPROM on a 486 single board computer

11 A taxonomy of computer program security flaws

Carl E. Landwehr, Alan R. Bull, John P. McDermott, William S. Choi

September 1994 **ACM Computing Surveys (CSUR)**, Volume 26 Issue 3

Full text available:  [pdf\(3.81 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

An organized record of actual flaws can be useful to computer system designers, programmers, analysts, administrators, and users. This survey provides a taxonomy for computer program security flaws, with an Appendix that documents 50 actual security flaws. These flaws have all been described previously in the open literature, but in widely separated places. For those new to the field of computer security, they provide a good introduction to the characteristics of security flaws and how they ...

**Keywords:** error/defect classification, security flaw, taxonomy

12 Virtual machine monitors: Terra: a virtual machine-based platform for trusted computing

Tal Garfinkel, Ben Pfaff, Jim Chow, Mendel Rosenblum, Dan Boneh

October 2003 **Proceedings of the nineteenth ACM symposium on Operating systems principles**

Full text available:  [pdf\(140.31 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We present a flexible architecture for trusted computing, called Terra, that allows applications with a wide range of security requirements to run simultaneously on commodity hardware. Applications on Terra enjoy the semantics of running on a separate, dedicated, tamper-resistant hardware platform, while retaining the ability to run side-by-side with normal applications on a general-purpose computing platform. Terra achieves this synthesis by use of a *trusted virtual machine monitor* (TVMM) ...

**Keywords:** VMM, attestation, authentication, trusted computing, virtual machine, virtual machine monitor

**13** Bochs: A Portable PC Emulator for Unix/X

Kevin P. Lawton

September 1996 **Linux Journal**Full text available:  [html\(21.09 KB\)](#) Additional Information: [full citation](#), [index terms](#)**14** Remote Linux explained

Richard Ferri

January 2002 **Linux Journal**, Volume 2002 Issue 93Full text available:  [html\(25.94 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)


Learn to take advantage of the benefits of remote booting.

**15** The measured performance of personal computer operating systems

J. B. Chen, Y. Endo, K. Chan, D. Mazieres, A. Dias, M. Seltzer, M. D. Smith

December 1995 **ACM SIGOPS Operating Systems Review , Proceedings of the fifteenth ACM symposium on Operating systems principles**, Volume 29 Issue 5Full text available:  [pdf\(1.98 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)**16** A field study of exploratory learning strategies

John Rieman

September 1996 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 3 Issue 3Full text available:  [pdf\(259.01 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

It has suggested that interactive computer users find "exploratory learning" to be an effective and attractive strategy for learning a new system or investigating unknown features of familiar software. In exploratory learning, instead of working through precisely sequenced training materials, the user investigates a system on his or her own initiative, often in pursuit of a real or artificial task. The value of exploratory learning has been studied in controlled settings, with s ...

**Keywords:** diary studies, discovery learning, exploratory learning, learning in the workplace, learning on demand

**17** Cluster resource management: An integrated experimental environment for distributed systems and networks

Brian White, Jay Lepreau, Leigh Stoller, Robert Ricci, Shashi Guruprasad, Mac Newbold, Mike Hibler, Chad Barb, Abhijeet Joglekar

December 2002 **ACM SIGOPS Operating Systems Review**, Volume 36 Issue SIFull text available:  [pdf\(2.10 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Three experimental environments traditionally support network and distributed systems research: network emulators, network simulators, and live networks. The continued use of multiple approaches highlights both the value and inadequacy of each. Netbed, a descendant of Emulab, provides an experimentation facility that integrates these approaches, allowing researchers to configure and access networks composed of emulated, simulated, and wide-area nodes and links. Netbed's primary goals are ease ...

**18** An analysis of CP/NET

George H. Clapp

December 1983 **Proceedings of the 1983 ACM SIGSMALL symposium on Personal and small computers**

Full text available:  pdf(615.71 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

CP/NET, a software package designed to add networking capabilities to microcomputers running under the CP/M-80 operating system, is examined with respect to internal logical organization, separation of functions, and correspondence with the ISO OSI reference model.

**19** [Risks to the public in computers and related systems](#)

Peter G. Neumann

April 1990 **ACM SIGSOFT Software Engineering Notes**, Volume 15 Issue 2

Full text available:  pdf(2.07 MB) Additional Information: [full citation](#), [index terms](#)



**20** [Encrypt your root filesystem](#)

Mike Petullo

January 2005 **Linux Journal**, Volume 2005 Issue 129

Full text available:  html(24.01 KB) Additional Information: [full citation](#), [abstract](#)

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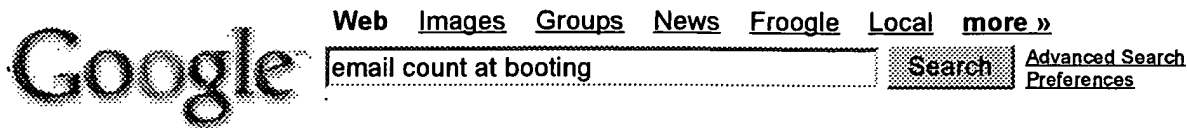
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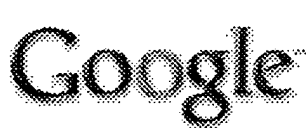


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... This information appears at the bottom of your screen after power on, during

memory count up. ... If you have an Award BIOS, you can also email AWARD at ...

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as well as ... who had Infante down in the count, one ball and two strikes. ...

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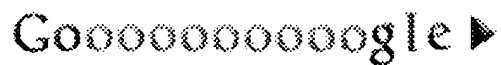
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L3	1184	709/200.ccls.	US-PGPUB; USPAT; EPO	OR	OFF	2005/05/13 17:46
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L9	22	(BIOS or boot\$7) and ((email or e-mail or mail) near3 count)	US-PGPUB; USPAT; EPO	OR	OFF	2005/05/13 17:47
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L15	11	2 and 6	US-PGPUB; USPAT; EPO	OR	OFF	2005/05/13 17:49

L16	15	2 and 7	US-PGPUB; USPAT; EPO	OR	OFF	2005/05/13 17:49
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